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Valentine's

PREPARATION OF

Meat Juice.

A BRIEF HISTORY

OF THE PRODUCTION OF

Valentine's Meat Juice,

TOGETHER WITH

TESTIMONIALS

OF THE MEDICAL PROFESSION.

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CITY OF WASHINGTON.

RICHMOND, VA.:
MANN S. VALENTINE.
1874.

Gillis, Printer, 1009 Main St.

SHAKE BEFORE
VALENTINE'S PREPARATION
TRADE MARK
NUTRIO PER ME
MEAT JUICE.
The result of an Original Process of preparing Meat, and extracting its Juice, by which the elements of nutrition—THE GRAM OF LIFE—are obtained in a state ready for immediate absorption.
DIRECTIONS—Dissolve one tea-spoonful of the Preparation in two or three table-spoonfuls of cold or moderately warm water. THE USE OF HOT WATER changes the character of the preparation.

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OF THIS CIRCULAR ARE

RESPECTFULLY SUBMITTED TO THE CONSIDERATION

OF THE

MEDICAL PROFESSION

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NUTRIO PER ME.

A BRIEF ACCOUNT

OF THE

PRODUCTION OF THE MEAT JUICE.

In the autumn of 1870, and during the extreme illness of a member of my family, occasioned by a severe and protracted derangement of the organs of digestion, I became deeply and anxiously impressed with the importance and necessity of procuring some form of nourishment for the sick, on which more reliance could be placed in sustaining the powers of life, and promoting a return to the ordinary food of health, than any of the then known characters of diet. This undeveloped nutrient should be acceptable to the most irritable stomach; it should be safe in the administration; ready of assimilation and permanent in the support of the vital powers—co-operative with the remedial agents of the medical man.

To conceive a nutritive principle so eminently desirable, engaged my most earnest thoughts, pending the emergency in my own family, for suitable—even possible, sustenance. With a definite purpose of mind, and with a studious and loving care, I searched among the multitude of foods, old and new, natural and artificial, to discover and develop a principle in the best combination of the kindliest elements of nutrition. Meanwhile, I directed my attention to a series of experiments, by which to determine

practically, the principle with which my mind was imbued. My experiments were, for a length of time, unpromising in fullness of result, but being prosecuted with confidence and ever increasing interest, they had a final success. The first application of the MEAT JUICE was made in my own family, and, under the observation of my physicians, were realized the happy results anticipated from my labors.

Aware of the value of *raw meat*, where the stomach and intestines were equal to its digestion, I recognized its utility as an article of diet; but I discarded the idea that organs but feebly performing their functions, could elaborate it as nutriment, and with sufficient diligence eliminate the rich treasure stored and locked up in the body of the flesh. I knew, also, that there were serious obstacles in the way of obtaining the juice and its important constituents from raw flesh, and was moreover persuaded, that there would be grave objections to its application, if obtained. Then, again, in all the usual methods of preparing food, (my experiments, at this time, were directed exclusively to meat,) whether by boiling or roasting, making beef teas and other extracts, the chemical constituents of soluble flesh or juice were altered—especially the albumen, so necessary an element of nutrition, was coagulated and impaired in value, either in the body of the meat, or in the juice that flowed from it.

My experiments, therefore, pointed to extracting the soluble constituents of flesh—first by mechanically tearing asunder the broad muscular fibre; secondly, by the application of heat, at a low temperature, rupturing the ulti-

mate fibres; and thirdly, by the adoption of judicious pressure, liberating from the entire body of the meat all the constituents contained in it.

The variable results from numerous experiments indicated that a certain expertness would be necessary in the production of the Meat Juice; this attained, there would be afforded a nutriment the closest approximation possible to the elements of the circulating fluid itself. I believed that this principle of nutrition would readily commend itself to the organs of digestion, and that we might anticipate from the feeblest powers a response to our effort to re-establish them with natural and original material.

I am gratified to know, that the principle involved in the production of the Meat Juice has been recognized by some of the ablest medical and scientific men of the country; that my labors in producing and perfecting this first article by my process have been appreciated, and the Meat Juice is doing good service to humanity.

I desire to express my thanks to the Medical Profession for their kind co-operation in testing the Meat Juice, and after careful trial, determining the best applications, and making known the greatest usefulness of my production.

I acknowledge my indebtedness for personal kindness and advice, and for a valued correspondence from scientific gentlemen in various parts of the country, whose time is allotted to most important and pressing professional duties.

MANN S. VALENTINE.

RICHMOND, VIRGINIA.

The Medical Profession recommend that the following Statements be made:

THE two ounce, oval bottle, adopted for the Meat Juice, contains the juice of four pounds of the best beef, exclusive of fat. Nine-tenths of the liquid holding the elements of nutrition in solution is evaporated off.

The Meat Juice has been subjected to the heat, cold, dampness and the fluctuations of different climates, without change in its character.

The flavor of the Meat Juice is the natural one. The taste of the simple, original elements of soluble flesh may be rendered more acceptable, perhaps, by seasoning; but, as in the general use of the Meat Juice by the Medical Profession, there are particular applications where the introduction of condiments might be objectionable, these have been wholly abstained from; leaving to the medical adviser all directions in this respect required by the sick.

The character of the Meat Juice is altered by the admixture of acids or alcoholic liquors.

The Meat Juice taken frequently and in small quantities, has been recommended, in preference to large draughts administered at longer periods of time. When taken an hour or so in advance of a meal, it has been found to promote the digestion of the meal.

The effect of the Meat Juice in relieving nausea has been very marked. In its administration for *sea-sickness*, if the stomach be full, allow it to empty itself before using.

In the administration of the Meat Juice by *enema*, the directions are the same as when taken by the stomach, except that the quantity should be larger.

The Methods of preparing and incorporating the Meat Juice, which have been acceptable, and with the advice of a Physician, beneficial.

Instead of water, ice may be used with the Meat Juice. In cases of extreme nausea the dissolved Meat Juice may be frozen. *With care*, the Meat Juice may be warmed on a water-bath, to the temperature of 130°; but this requires attention and judgment, or the albumen will be coagulated. *The use of hot water changes the character of the preparation.*

When taken *in combination with Cod Liver Oil*, if ice be substituted for water to the Meat Juice, the taste of the Oil will not be so perceptible.

The Meat Juice may be administered with *Arrow-root* or *Corn Starch*, by preparing the mucilage in the usual way, and then stirring the Meat Juice into it, *after it has cooled down to* 130°.

A very pleasant and inviting Jelly may be made for the sick with the Meat Juice, by dissolving gelatine in water, and adding the Meat Juice. It can be seasoned or not, as may be advised by the physician.

Chicken broth will be improved by the addition of Meat Juice.

When the condition of the sick justifies a change from the Meat Juice to the use of other diet, stale bread crumbled in the praparation renders it savory, while it constitutes a safe advance toward solid food.

MODE OF ADMINISTRATION.

The minimum dose in extreme cases should be a half-teaspoonful, diluted with a tablespoonful of water, *cold or tepid*—increased to two teaspoonsful, diluted in proportion. A further dilution has been advised of half-teaspoonful to one, and a half, or even two tablespoonsful of water, for infants.

TESTIMONIALS OF THE MEDICAL PROFESSION.

Richmond, May 2d, 1871.

To Mann S. Valentine, Esq.

Having used the "Meat Juice', (which represents all the soluble elements of beef in the most assimilable form,) in many obstinate and almost hopeless cases of disease, I can confidently recommend it to the favorable consideration of the medical profession.

I have found that this preparation quickly stimulates the stomach when enfeebled from almost any cause, not only in Dyspepsia and Chronic Gastritis, but in Sea-sickness, the sickness of pregnancy, and such kindred conditions. Used by enema, it is rapidly absorbed, and exhibits its nutrient qualities in a remarkable degree. I am more and more pursuaded that we have gained by it a valuable dietetic.

J. B. McCAW, M. D.
Prof. Practice of Medicine, Medical College of Va.

May 15th, 1871.

Mr. Mann S. Valentine, Richmond, Va.

My Dear Sir:—Having witnessed several instances where your "Preparation of Meat Juice," served promptly

to quiet a most irritable stomach, and steadily to nourish and strengthen a most enfeebled body, after approved food of every variety had failed to do it, I earnestly wish that its benefits be diffused as far as possible.

In this spirit, I am glad to attest publicly to the very highest estimation of it.

Most Truly Yours,

F. MARX, M. D.

Richmond, Va., May 16th, 1871.

My Dear Sir:—I am glad to hear that you have made arrangements to furnish your preparation of Beef to the public.

I consider the preparation of inestimable value in many cases of disordered Digestion, Chronic Diarrhœa, Cholera Infantum, &c., and confidently recommend it to patients suffering under such troubles, as the most nutritious and easily assimilated form of Beef that I have seen used.

Very Respectfully,

HUNTER MAGUIRE, M. D.
Prof. Surgery, Virginia Medical College.

To Mann S. Valentine, Esq.

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296 5th Avenue, New York, Jan. 16th, 1872.

I have used "Valentine's Meat Juice" very freely during the past three months, and I am better pleased with it than any other preparation of the kind which I have employed.

It is digestible, extremely nutritious, and contains a large amount of nutrient material, in small bulk.

T. GAILLARD THOMAS, M. D.

Mann S. Valentine, Esq.

Dear Sir:—I am using your "Meat Juice" in my practice, and I am happy to say with great satisfaction. It is clearly a very valuable addition to our medical dietary.

Let me suggest a direction for its use beyond the sick chamber. In the hurry of business, mercantile and professional especially, many young men are debarred from taking their meals at regular hours, and to remove a sense of hunger or exhaustion, they are led to the use, or abuse, of alcoholic stimulation. Now, the "Meat Juice" *drachm for dram*, is incomparably more nutritious than whiskey, without any of the pernicious effects of the latter; and if it were kept for use in offices and counting-rooms, it would supply a real want to the system, and in a safe and wholesome manner, acting, according to the old saying, "tuto, cito, ac jucundi."

With a cordial recommendation of the "Meat Juice," which you have so successfully prepared, I remain,

Yours Respectfully,

RICHARD McSHERRY,

Prof. Prac. of Medicine, University of Maryland.

Baltimore, January 21st, 1872.

MEDICAL DEP'T MUTUAL LIFE INSURANCE CO.,

New York, Jan. 22d, 1872.

I have used "Valentine's Preparation of Meat Juice"

during the past three months, in many cases of delicate digestion and extreme nausea, and have always found it easily assimilated, and readily retained. I regard it as far superior to any preparation yet introduced.

G. S. WINSTON, M. D.

VIRGINIA MILITARY INSTITUTE, Feb. 15th, 1872.

Mann S. Valentine, Esq.

Dear Sir:—I have not yet had an extended opportunity of testing the efficacy of your "Preparation of Meat Juice," but even a limited experience with it convinces me of its great value, as a prompt and potent remedy in cases of sudden prostation from hemorrhage, in the exhaustion and debility of protracted disease, in atonic Dyspepsia and generally wherever the introduction of food is *imperative*, but the stomach unable to digest anything else. As an efficient remedy under these circumstances, it is probably second only to transfusion, without any of the dangers of the latter expedient.

Respectfully,

R. L. MADISON,

Surgeon and Prof. Physiology, V. M. I.

Washington City, D. C., 1330 N. Y. Ave.

February 18, 1872.

It affords me pleasure to contribute my testimony in favor of Mr. Valentine's "Preparation of Meat Juice." I have used it in a number of cases, and found it to answer (as a mild nutrient and stimulant,) better than most I

have used. I have recommended it in cases where the stomach could retain *no nourishment*, neither raw beef, eggs, or even cold water. I think it is peculiarly valuable in cases of young and delicate children, where milk in any form disagrees. But the greatest benefit I have derived from it has been with those, who, from long dissipation and the use of alcoholic liquors, were unable to retain any nourishment or stimulant. This class of patients take and retain the "Meat Juice" well, particularly if cayenne is added to it. One of my patients, who could retain no kind of food, took it with so much benefit, that he called it "The Great Virginia Medicine," and says it is the greatest known.

I am satisfied that it possesses some advantages over the best preparations known as Extracts of Beef, for the reasons: It is more agreeable, may be taken in cold water, and it contains the albumen &c., of the meat, which are destroyed by the methods pursued by others in preparing their Extracts. I have found it, to supersede the use of alcoholic drinks, in some cases. Persons who have been in the habit, *from necessity*, of taking *morning drams*, now substitue Mr. Valentine's "Meat Juice."

THO. MILLER, M. D.

2729 Olive St., St. Louis, Mo., Feb. 20, 1872.

I recommend the use of "Valentine's Meat Juice" in all cases where much nourishment is required, and only a small quantity in bulk can be digested—as in Typhoid Fever, Diarrhœa, certain forms of Dyspesia, &c. It is far superior to anything of the kind I have ever used.

M. M. PALLEN, M. D.

Washington, D. C., Feb. 26th, 1872.

Mr. M. S. Valentine,

Dear Sir:—I have used your prepared "Meat Juice" in "The Children's Hospital," District of Columbia, and consider it the best adjuvant I have been able to obtain for a nourishing diet.

I find the "Meat Juice" especially advantageous in cases after severe operations, where loss of blood and shock combine to depress the vital powers and functions.

Hoping that your preparation may continue to be made as purely as the article now in market, I am, with many thanks, Yours Truly,

F. A. ASHFORD, M. D

One of the Surgeons of Child's Hospital, D. C.

Baltimore, Md., March 9th, 1872.

My Dear Sir:—In reply to your query, I can answer that I am entirely satisfied, so far, with results obtained from the employment of your preparation of "Meat Juice." It agrees better with the weak and enfeebled stomach than any other preparation I know of, besides being more agreeable and palatable to the taste.

Very Respectfully, Yours,

RIGGIN BUCKLER, M. D.

Mann S. Valentine, Richmond.

Richmond, Va., March 15th, 1872.

Having been requested to give my opinion in regard to the properties and virtues of the preparation of juice of

meat manufactured by Mr. Mann S. Valentine, of this city, it affords me much pleasure to state the following facts:

By an ingenious, yet simple process, which I have personally witnessed, Mr. Valentine has succeeded in producing a concentrated extract of the fluids contained in muscle, without injury to their nutritive value. This process consists in extracting nearly the whole of the fluid constituents, by trituration, forcible expression and the application of heat below the coagulating point. Not only is the juice contained between the muscle-fibres expressed, but the fibre itself is disintegrated, and forced to yield the fluid constituents of its cells, which being concentrated by gentle heat *in vacuo*, yields an extract pleasant to the taste, acceptable to the most irritable stomach, and assimilated by the feeblest digestive powers.

I have employed Mr. Valentine's product in numerous cases, and have been exceedingly gratified with the favorable results produced by its administration. Some of my patients have lived exclusively upon it for spaces of time varying from ten days to three weeks. One of my patients, seriously ill with typhoid fever, was nourished exclusively by it for two weeks, and daily increased in strength from its use, until firmly convalescent. The preparation was digested and assimilated, although the patient had continuous fever, and loathing of all kinds of food. Another of my patients subsisted exclusively for nine days on the same article, when no other article could be retained on his stomach. Many other of my patients have been greatly benefitted by Mr. Valentine's prepara-

tion, and in no case has it ever produced nausea, or the slightest unpleasant or injurious effect.

I earnestly and candidly recommend it to the profession and the public.

O. F. MANSON, M. D.,

Prof. Physiology and Pathology, Med. Col. of Va.

Richmond, Va., March 15th, 1872.

It affords me pleasure to bear testimony to the merits of the valuable preparation known as "Valentine's Meat Juice." It has met with encouragement from all professional men who have given it a trial.

It possesses all that the discoverer claims for it, and is, in my opinion, superior to any other preparation of beef known.

JAMES BEALE, M. D.

I prescribe Valentine's Meat Juice daily, and like it better than any preparation of the sort I have ever used.

J. MARION SIMS, M. D.

New York, March 25th, 1872.

Baltimore, March 30, 1872.

Mann S. Valentine, Esq.,

Dear Sir:—I have deferred replying to your letter accompanying a package of your "Meat Juice," until I had sufficient opportunity of testing its qualities.

I can now say that thus far I have found it eminently satisfactory as regards nutrient properties, while in taste

and acceptableness to the stomach, it is decidedly superior to any similar concentrated animal food that I have ever tried. I consider it a most valuable addition to our hygienic resources. Very respectfully,

S. C. CHEW, M. D.,

Prof. Materia Med. in University of Maryland.

St. Joseph's Hosp., Baltimore, Md., Apr. 3, 1872.

Mr. Mann S. Valentine,

Sir:—After a trial of your "Meat Juice" at the Hospital, I beg leave to add my testimony to its value. The difficulty that I have generally found in the administration of these preparations is the disgust that patients express after a few doses. This has been, in my hands, no objection to the use of your Meat Juice.

Respectfully, Yours, &c.,

OSCAR J. COSKERY, M. D.

Brooklyn City Hosp., Brooklyn, N. Y., Apr. 16, 1872.

Mr. Mann S. Valentine,

Dear Sir:—I have been using your "Meat Juice" on different cases in this Hospital. It has more than answered my expectations. I find that patients improve rapidly in appetite and strength under its administration. Of all the various preparations of Meat that I have met with and used, I consider yours by far the most serviceable. I am, with much respect,

Your ob't servant,

WALTER REED, M. D.

Resident Surgeon.

Louisville, Ky., May 1st, 1872.

Mann S. Valentine, Richmond, Va.,

I have seen nothing in the way of Meat Juice comparable to yours. It is both more palatable and better borne by the stomach than any other I have used, and it appears to me to be all that could be desired.

D. W. YANDELL, M. D.,
President American Medical Association.

Salem, Roanoke Co., Va., May 11th, 1872.

Mann S. Valentine, Esq.,

Dear Sir:—Permit me to add my testimony in behalf of your Preparation of Meat Juice, as a dietetic article, and I may add, as an eutropic.

In diseases of enfeebled digestion, and where the vital powers are low, attended with distressing nausea, it has proved an invaluable remedy. I have found it eminently serviceable in the nausea of females in *utero gestation*—especially in those obstinate cases that occasionally occur in which there is great emaciation and a sinking predisposition. I have been using it in my practice freely, and in no case has it disappointed me.

Very Respectfully, &c.,
OSCAR WILEY, M. D.

Charleston, S. C. Sept, 11th, 1872.

Mr. M. S. Valentine,

Dear Sir:—I have made quite an extensive trial of your "Meat Juice," during the past summer, particularly

in those protracted and exhausting diseases incident to infancy and childhood, so familiar to our Southern Physicians. The trial has resulted in a preference for your "Meat Juice" above all the Extracts which I have hitherto used. So far, it has fully come up to all that has been claimed for it, and if its preparation is conducted with the same care, and the purity of the materials maintained as heretofore, I have no doubt its use will be greatly extended.

Very Respectfully,
Your O'bt Servant,
F. M. ROBERTSON, M. D.

Prof. of Gynecology and Clinical Obstetrics in the Medical College of the State of South Carolina.

Charleston, S. C. Sept. 20th, 1872.

Mann S. Valentine, Esq.,

Dear Sir:—During the past summer I have had a full opportunity of testing your "Preparation of Meat Juice," particularly amongst children suffering from diarrhœa, from "teething." I find that as soon as they lose their appetite, and commence to degenerate generally, your Preparation administered is well retained and most often enjoyed by the little sufferers. They improve rapidly in health and strength. Other preparations are not so easily tolerated, on account of their unpleasant odor and taste.

I consider the contents of your little bottle most invaluable in all acute and wasting diseases.

Very Respectfully,
W. M. FITCH, M. D.

Charleston, S. C., Sept. 26th, 1872.

Dear Sir:—Some time ago I had the honor to receive by Express specimens of your "Meat Juice," for trial. I have not thus far acknowledged your kind communication, for the simple reason, that I *never* certify to things of which I know nothing.

I have in the meantime tested your "Preparation" fully and cautiously, and the result of my experience has been, that in all cases where support is demanded, whether in the teething child, or the adult, worn down by disease, your "Preparation" has, under my observation, proved far more efficacious than all the farrago of farinaceous articles, and so-called extracts, which often do more harm than good.

I am, Very Respectfully,
Your Ob't Servant,
E. GEDDINGS, M. D.

Mann S. Valentine, Esq., Richmond, Va.

Cunard R. M. S. Parthia, Oct. 4th, 1872.

Mr. M. S. Valentine,

Dear Sir—In answer to yours, I have great pleasure in stating that your "Meat Juice" has been, in a great number of cases, the first thing that has been retained on the stomach in Sea-sickness—a member of the Massachusetts Legislature, on his arrival at the other side, expressed his intention of waiting for some before undertaking the return passage. Yours Truly,

SIBTHROPE BRADLEY, M. D.,
L. R. C. S. and Surgeon R. M. S. Parthia,
L. & L. M. K. Q. C. P. S. L. M. R. H.

Dear Sir—I have used "Valentine's Meat Juice" very extensively, and give it a preference over all other preparations which have come under my notice. I have found it decidedly the most palatable and the most nutritious of all such articles.

ADDINELL HEUSON, M. D.

Philadelphia, Oct. 7th, 1872.

Quarantine Office, Charleston, Nov. 20, 1872.

Mr. M. S. Valentine,

Dear Sir—Your samples of "Meat Juice" were received through the politeness of your agent, and used very freely during the summer in Cholera-infantum, low forms of fever and other diseases peculiar to this climate.

I cheerfully add my testimony to its dietetic value, and regard your "Meat Preparation" of great benefit, not only in infantile, but also in adult practice. It is with much pleasure that I can recommend its use to the profession generally from past experience, and the happy results in my practice.

Very Respectfully, &c.,

ROBERT LEBBY, M. D.

Health Officer, Harbor of Charleston.

I have recommended "Valentine's Meat Juice" frequently the past summer, having from my own experience found it the most palatable and most beneficial preparation of the kind I have ever employed. I may also state, that all my patients to whom I have recommended it have

endorsed my views, and prefer it to all other preparations.

WILLIAM V. KEATING, M. D.,
Physician to St. Joseph's Hospital,
1604 Locust St., Philadelphia, Oct. 9th, 1872.

1611 Chestnut St., Philadelphia, Pa.

I have been using for some time the Meat Juice prepared by Mr. Valentine, and I think, with excellent results.

D. HAYES AGNEW, M. D.

The peculiar qualities which commend Valentine's Meat Juice, are its great convenience, fine flavor and unquestionable energy. Patients usually prefer it to other factures, and I am glad to add my testimony in its favor.

THOMAS G. MORTON, M. D.,
Attending Surgeon Pennsylvania Hospital.
Philadelphia, November 15th, 1872.

After a lengthy and thorough trial of Valentine's Extract of Beef, or "Meat Juice," I can most heartily endorse the opinion of Dr. Morton, as expressed above.

ALFRED JONES,
Sec'y Philadelphia Orthopaedic Hospital.
Philadelphia, Nov. 15th, 1872.

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64 Lafayette Ave., Detroit, Mich., Feb. 6th, 1873.

Mann S. Valentine, Esq.,

Dear Sir:—I have tested the "Meat Juice" in my prac-

tice to a considerable extent, in cases of extreme debility, nausea of pregnancy, and pneumonia of children. I consider it invaluable, in fact, in all cases where nutriment is indicated instead of medicine, and the stomach so irritable as not to retain ordinary nourishment.

I have found the Meat Juice very valuable in a case of lockjaw, where the amount taken was not so great as to excite the spasm, as in ordinary food. I should have used it more had my apothecary been able to obtain it. How it will stand the warm weather I know not; it is the food for cold. One lady has used a dozen bottles, and does not tire of it. *It is par excellence the medicine* FOOD *of the age.*

Yours Truly,

WM. BRODIE, M. D.

Toledo, Ohio, February 6th, 1873.

Mr. Mann S. Valentine,

Dear Sir:—I have used the specimen of "Meat Juice" prepared by you, which was left with me by Mr. Blunt, and I must say, that it is the best preparation from meat I have ever used. Its taste is very acceptable, and its beneficial effects are quickly perceived.

Yours Truly,

J. B. TREMBLEY, M. D.

Chicago, Ill., Feb'y 8th, 1873.

Mr. Mann S. Valentine,

Your Meat Juice is an excellent article of the kind, and will no doubt be extensively prescribed by the profession.

WM. H. BYFORD, M. D.

156 Third Ave., Pittsburgh, Pa., Feb. 15, 1873.

Mr. Mann S. Valentine,

Dear Sir:—I have used your "Meat Juice" at the Western Pennsylvania Hospital, and regard it as superior to any of the Meat Extracts now in use.

I gladly recommend it to the profession as the best prepared nutriment we have.

Respectfully,

S. N. BENHAM, M. D.

Manchester, Va., February 15th, 1873.

Mr. Mann S. Valentine,

Dear Sir:—Let me call your attention, and through you, that of the medical profession, to a manner in which I have used your Meat Juice with great good to some of my patients suffering from *weak* digestion. I give two hours before each meal one teaspoonful of your Meat Juice dissolved in a cupfull of water. My reason for using it in the above manner is due to the fact established by Maurice Schiff of the increased formation of pepsine from the absorbtion of various substances held in solution by water, such as bouillon, dextrine, &c., in fact, Maurice Schiff has treated some forms of dyspepsia successfully with bouillon. I wish merely to call your attention to this fact, as your Meat Juice is a more convenient and better material than bouillon, at the same time possessing, as it does, other valuable and nutritive qualities, and I think it superior to most of the forms of pepsine in common use.

Allow me also to call your attention to Dr. Browne Se-

quard's mode of treating some forms of dyspepsia by small and oft-repeated meals. (See Archives of Scientific and Practical Medicine, by Browne Sequard and Sequin, of New York, January, 1873.) One of the benefits of this mode of treatment occurs to me to be the peptogenic action of the substances soluble in water absorbed by the stomach of the preceding meals on the digestion of the succeeding ones. Your inferences from the above will be readily made.

Yours Truly,

W. R. WEISIGER, M. D.

Cincinnati, Ohio, Feb. 18th, 1873.

Dear Sir:—Yours of the 12th inst. is at hand. I have tried the "Meat Juice" in a limited way, and it has given satisfaction.

Very Respectfully,

C. G. COMEGYS.

Mann S. Valentine, Esq., Richmond, Va.

St. Louis Hospital, Missouri, Feb. 15th, 1873.

Mr. Mann. S. Valentine,

Respected Sir:—We have used some of your "Preparation of Meat Juice," in our Hospital, and it is the first article of this kind that we could ever recommend as having the natural taste of beef.

Respectfully,

SISTERS OF CHARITY.

New Orleans, La., April 29th, 1873.

I have no hesitation in saying that "Valentine's Preparation of Meat Juice" has, in my hands, served a more valuable purpose, as a nutritive and restorative agent, than any other similar preparation.

S. M. BEMIS, M. D.

1525 Olive St., St. Louis, Mo., May 3d, 1873.

I have been using "Valentine's Meat Juice" for about three years. It is the best preparation for invalids that I have seen.

MONTROSE A. PALLEN, M. D.

St. Louis, Mo., May 5th, 1873.

I cheerfully bear testimony to the value of "Valentine's Meat Juice." I have used it in my practice, as also extensively in St. Louis Hospital, and think it invaluable.

E. H. GREGORY, M. D.,
1006 Olive St., Surgeon to St. Louis Hospital.

St. Louis, Mo., May 5th, 1873.

I have used extensively the "Valentine's Meat Juice," and it has come up to my expectation under every circumstance.

L. CH. BOISLINIERE,
Prof. Obstetrics, St. Louis Medical College.

St. Louis, Mo., May 5th, 1873.

I feel justified in recommending "Valentine's Meat

Juice," having used it in my practice for over two years. I consider it by far the best preparation of meat that I have met with.

S. GRATZ MOSES, M. D.

1601 Washington Ave., St. Louis, Mo., May 5, '73.

I have prescribed "Valentine's Meat Juice,' both in practice and at the Institute, for diseases of women, and find it a valuable remedy in cases of debility and impaired digestion.

M. YARNALL, M. D.

St. Louis, Mo., May 5th, 1873.

I have used "Valentine's Meat Juice" freely during the three past years, and am satisfied that it answers all the ends for which it is intended more fully than any other similar preparation yet introduced to the profession. It is only necessary for an intelligent medical man to put it to a fair test, to convince himself that it is a ready, efficient and invaluable article of nourishment for his patients.

WALTER COLES, M. D.,
2346 Olive Street.

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74 S. Morgan St., Chicago, May 13th, 1873.

Mann S. Valentine, Richmond, Va.,

Dear Sir:—I received a long time ago, from your Agent, Mr. Blunt, a few bottles of your Meat Juice for examination and trial. Some time afterwards, I received a letter from you requesting my opinion as to its merits,

and also a description of its appearance under the microscope.

I have used the "Meat Juice" in a variety of cases, where nutriment in a simple, easily assimilable, as well as concentrated form, was required, and, so far as I remember, in every case, with pleasant and satisfactory results. In one case of terrible exhaustion (collapse) from hemorrhage after labor, I employed it with entire satisfaction. In several cases of "wasting" disease of infants, I have used the "Meat Juice," and it has seemed to be of great benefit. In fact, I think it is likely to be of quite as much service to children as adults.

A drop of the Juice placed under the microscope, shows (1) many fat globules; (2) an occasional very minute shred of muscular fibre; (3) large crystals, which are doubtless the salts of muscular juice precipitated; (4) a large proportion of fine amphorous granular matter, which I take to be the granular form of albumen. (The bottle from which the specimen was taken had been standing for three months, in a warm room, without being disturbed.)

In conclusion, I believe your preparation to be the most valuable as well as the most palatable extract of meat yet placed upon the market, and that it will maintain its position, just as long as you maintain its *quality*, and I trust no longer than that. Pray continue to make it as carefully and as honestly as you do now.

Yours,

J. N. DANFORTH, M. D.

104 State St., Albany, N. Y., July 5th, 1873.

Mr. Mann S. Valentine,

Dear Sir:—I have found your Meat Juice highly useful in all forms of fever, in the summer diseases to which young children are subject, and in any case of indigestion, acidity, or gastric disturbance, in which milk cannot be tolerated. This condition frequently obtains in cases of infants deprived of their natural food, or when, on account of disease in the mother, the supply fails to nourish the child. Such cases are of frequent occurrence in every-day practice, and it gives me great pleasure to testify to the value of your preparation. I have used it alone, and also in combination with Ridge's Patent Food, prepared with water only, when milk could not be tolerated. I am confident that a timely resort to this form of regimen in my practice, during the past few months, has saved the lives of several little children. Rest assured that I value your preparation very highly. It is one that cannot be dispensed with in very many cases, neither can its place be made good by any substitute that I have ever tried.

Respectfully,

H. M. PAINE, M. D.

Galveston City Hospital, Feb'y 3rd, 1874.

Mr. Mann S. Valentine, Richmond, Va.,

Dear Sir:—It affords me pleasure to make a favorable report of the "Meat Extract," which you sent me. The cases in which it was tested were selected ones, where other condensed nutrients had been used without results. It has proved itself more efficacious in my hands, where, in

exhausting diseases, rapid assimilation is urgently demanded, the digestive functions being unequal to the task of satisfying the wants of the general economy. It seems to me to be superior to other preparations of the kind, if only on account of its fine flavor, and I consider it a valuable addition to the dietetic pharmacopea.

Very Respectfully, Yours, &c.,

CHARLES GANAHL, M. D.,
Physician to Hospital.

Galveston, Texas.

Charity Hospital, New York, Feb'y 27th, 1874.

Mann S. Valentine, Esq.,

Sir:—I have caused the specimen of your "Meat Juice" to be used in the wards of this Hospital, and the members of my staff to whom its administration was entrusted agree in commending it very highly.

I have myself employed it in two cases where the irritability of the stomach was so great that no other nutriment could be retained. In each instance the "Meat Juice" was readily retained and digested, and the patients' improvement was marked. I am convinced that the "Meat Juice" is a preparation of very considerable value.

Yours Respectfully,

A. E. MACDONALD, M. D.,
Chief of Staff.

CORRESPONDENCE

Of Members of the Association of Superintendents of Insane Hospitals of the United States of America.

Maryland Hospt'l for Insane, Baltimore, Sep. 14, 1872.
Mann S. Valentine, Esq

Dear Sir:—I have tested your "Meat Juice" in several cases, and feel fully satisfied of its good effects, and freely recommend it to the Superintendents of Insane Asylums, where the use of liquid nourishment is a great desideratum. I mentioned it at our meeting in May last, at Madison, Wisconsin, but not being provided with samples, could not do it justice.

I send you the address of all the Superintendents of Insane Asylums, and such as are not acquainted with your "Meat Juice." I hope you will forward samples.

With thanks for your kind consideration of this Institution, I am,

Very Respectfully, Yours, &c.,
WM. F. STEUART, M. D.

In response to the request of Dr. Steuart, contained in the foregoing communication, samples of Meat Juice were forwarded to the members of the Association of Superintendents of the various Insane Hospitals of the United

States; and, at my solicitation, these gentlemen have afforded me the results obtained by them from the use of the article in their practice.

Dr. Steuart has placed me under great obligations to him for suggesting the test of the Meat Juice to the specialty of mental alienation, and for making me acquainted with his colleagues and friends of the Association, from whom the Meat Juice has had the fairest consideration. I have been accorded a correspondence, at once deeply interesting and replete with valuable suggestions, of which latter I shall avail myself in the further development of the principle upon which the Meat Juice was produced.

I regret that the remoteness of the Hospitals in some instances, and want of suitable opportunities for satisfactorily testing the Meat Juice in others, have prevented my having reports from all the Hospitals.

Oak Lawn Retreat, Jacksonville, Ill., Dec. 14, 1874.

Dear Sir:—In the "Meat Juice" prepared under your patent, I find a desideratum most invaluable. It affords opportunity to administer nutriment to the very large class in our Insane Asylums who refuse food in bulk, either from some delusion, determination toward suicide, or a delicate condition of stomach. It is the "*multum in parvo*" that exactly meets the case. I shall be careful in future not to be without it.

Yours, Very Respectfully,

AND. McFARLAND, M. D. Supt.

Mann S. Valentine, Esq., Richmond, Va.

Government Hospital for the Insane,

Washington, D. C., Jan'y 13, 1873.

Mr. Mann S. Valentine,

Sir:—Your "Preparation of Meat Juice," which you obligingly sent to this Hospital, at the instance of Dr. Wm. F. Steuart, of Baltimore, Md., for a trial of its merits as a concentrated nourishment, came to hand soon after the admission of a young woman of quite delicate constitution, suffering from puerperal fever, and in a state of great debility.

After using "beef essence" and other forms of concentrated nourishment of our own preparation, for a few days, we gave her your "Meat Juice," and it was soon evident that it was more easily assimilated, and that it nourished the patient better than the food she had before taken. She steadily improved, notwithstanding the serious drawbacks of Erysipelas of the whole head and scrofulous swellings of the neck and throat, and is now convalescent. We attempted to use your "Meat Juice" in two other cases. In one it was rejected from mere caprice, and in the other the taste of it was not liked. You perceive that our trial of your preparation has been too limited to be made the basis of a confident conclusion touching its merits, but my impression in respect to its value as a concentrated and readily assimilated nourishment, are certainly highly favorable.

Very Respectfully,

C. H. NICHOLS, Supt.

Tennessee Hospital for the Insane,
Near Nashville, Jan. 13th, 1873.

Mann S. Valentine, Esq.,

Dear Sir:—I have had used in the Hospital, in a number of cases, the samples of "Meat Juice" you were kind enough to send.

I find it an excellent form of concentrated nourishment, where, from insane repulsion to, and resistance of, food, it frequently requires the use of the stomach tube; and, in cases where the feebleness of the digestive powers permits only the use of a small bulk.

I know of no preparation superior in these respects, or that I can more heartily recommend.

Yours Truly,
J. H. CALLENDER, M. D.,
Physician and Superintendent.

Eastern Lunatic Asylum,
Williamsburg, Va., Jan. 14th, 1873.

Mann S. Valentine, Esq.,

Dear Sir:—I take great pleasure in recommending your "Meat Juice" to the Superintendents of Insane Asylums; considering it one of the most palatable and highly nutritious preparations of the kind I have ever seen. I think it will be found especially useful, to the speciality, in those cases of insanity that require forcible feeding. We consider it valuable, and have freely used it in cases of exhaustion, from various causes.

Very Respectfully, Yours, &c.,
D. K. BROWER,
Superintendent and Physician.

Eastern Lunatic Asylum, Lexington, Ky., Jan. 15, 1873.
Mr. M. S. Valentine,

Dear Sir:—We find your "Meat Juice" an excellent and most desirable preparation. It is palatable, and contains much nutriment in small bulk. We think very highly of it.

Yours Respectfully,
JOHN W. WHITNEY,
Sup't E. Lunatic Asylum of Kentucky.

Alabama Insane Hospital,
Tuscaloosa, Ala., January 16th, 1873.

Dear Sir:—We have been using your "Meat Juice" very freely in this Hospital, and find it to be, as represented, a most elegant and palatable, as well as reliable and efficient dietetic.

We find it especially useful in the dangerous exhaustion attending the severer forms of Melancholia, in which both the appetite and digestion are generally impaired; and I confidently recommend it to the specialty in the treatment of this and other forms of cerebral disorder.

I am, Sir,
Very Respectfully, Yours,
P. BRYCE,
Physician in Chief.

Maine Insane Asylum, Augusta, Jan. 18, 1872.
Mann S. Valentine, Esq.,

My Dear Sir:—I am happy to acknowledge the receipt of a package of your "Meat Juice," which came to hand about two weeks ago, with your letter.

Since the receipt of the "Meat Juice," I have been using it with several of my patients, and am much pleased with the result. I believe the preparation is the best that has yet been offered to the public, and in institutions like ours, for the treatment of the insane, it will prove a most valuable nutrient, not only with patients suffering from weak digestion, but with a class of patients who require coercive alimentation.

Respectfully, Your Ob't Serv't,

H. M. HARLOW, Sup't.

Iowa Hospital for the Insane,

Mt. Pleasant, Iowa, Jan. 19, 1873.

Mann S. Valentine, Esq.,

Dear Sir:—I acknowledge the favor of a package of "Meat Juice," for Hospital use. It was used in some cases where food was taken reluctantly, but the taste being a new one to the persons to whom it was offered, the preparation was not relished so well as the meat extract we make from day to day. A portion was used in cases calling for coercive administration of food, and so far as I could judge, was equal in its effects to any concentrated preparation of animal food I have ever used. I cannot see why it is not an excellent preparation, where concentrated aliment is required and cannot be made on the spot, for voyages, camp life, or public institutions of any kind. Very Respectfully,

MARK RANNEY,

Medical Sup't.

Michigan Asylum for the Insane,
Kalamazoo, Jan. 24th, 1873.

Mann S. Valentine, Esq.,

Dear Sir:—In reply to your favor of the 10th inst., we would express our grateful appreciation of the obligations conferred upon us by the package of Meat Juice received from you in December.

We have tested the preparation in but one case, that of a lady suffering from Phthisis, with a very capricious appetite, and an irritable stomach. In this case it was taken with evident relish, and was well borne by the stomach. As regards its flavor, it is certainly in marked and agreeable contrast with many concentrated preparations of meat juice that have come under our notice.

Congratulating you upon your success in preparing so agreeable an extract, and only regretting that we cannot give you the result of a more extended trial,

I am, Very Truly Yours,
E. H. VANDEUSEN,
Medical Superintendent.

Lexington, Ky., Feb. 1st, 1873.

Mann S. Valentine, Esq.,

I have not heretofore acknowledged the receipt of a package of your "Meat Juice," because I wished to give it a fair trial. What was received has now been used, and under my own observation, or by reputable physicians, to whom I had given specimens. In every instance the "Meat Juice" has proven itself valuable, and in my

opinion it merits the confidence of the profession in all cases requiring pleasant, concentrated nourishment.

Yours Truly,

W. S. CHIPLEY, M. D.

Maryland Hospital for the Insane,

Catonsville, Baltimore Co., Feb. 7th, 1873.

M. S. Valentine, Esq.,

Dear Sir:—I am happy to learn through your kind favor, that I have been able to contribute a little towards the introduction of your valuable "Meat Juice." I have used it in many cases, and with entire satisfaction to myself. In two, in particular, which I will name, its advantages were so apparent, that the nurses were fully convinced nothing else could have been used by the patients.

The first was a case of puerperal mania, attended with great prostration and constant nausea. Everything taken in the stomach was immediately rejected, until I tried your Meat Juice, in powdered ice—half a teaspoonful every two hours. It allayed the nausea, strengthened the patient, and in nine days from its first administration, she could retain anything given her. She is now well.

The second was the case of a man who, from over-indulgence in drink, had brought on an inflammation of his stomach, which caused him to loathe the sight of food or drink. *It was not necessary for him to take it to cause an effort to vomit. The sight—often the mere suggestion of food or drink would have the effect of making him heave.* The only thing he craved was ice. I succeeded

in administering a few half-teaspoonfuls of the Meat Juice, with the ice, which soon had the desired effect. The stomach recovered its tone, and he is now well.

I am much gratified at your success, feeling sure it is a great boon to suffering humanity.

Very Truly Yours,

WM. F. STEUART, M. D.

Northern Illinois Hospital for the Insane,
Supt's Office, Elgin, Feb'y 18th, 1873.

Mann S. Valentine, Esq.,

Dear Sir:—I am in receipt of your favor of the 14th inst., and in reply would say, that I have made a trial of the "Meat Juice" in nourishing a patient who refused obstinately and persistently to take any food voluntarily, and was sustained exclusively by such food as could be introduced into his stomach through the feeding-tube. I used daily, at morning and noon, one-half ounce of the "Meat Juice" in solution with two raw eggs. This, with a bowl of milk punch in the evening, was all the food taken for twelve days; and at the end of that time the improvement in appearance and strength was quite noticeable.

In addition to its nutrient properties, which are marked, the "Meat Juice" has the merit of being readily assimilable, and is certainly more savory and *palatable* in its flavor than any other preparation with which I am acquainted. I think very favorably of it.

Very Respectfully Yours,

E. A. KILBOURNE.

McLean Asylum, Somerville, Mass.,
Feb'y 24th, 1873.

Mr. Mann S. Valentine,

Dear Sir:—We have used your "Meat Juice" as yet, but in two cases. The first was a case of Typhoid Fever with Pneumonia, and the patient was very much nauseated, and able to take but little nourishment. She took four bottles of your Juice, retained it in her stomach, and did well during its administration.

We are now trying it with a patient in acute Phthisis, who is also much troubled with nausea. She has no difficulty in retaining the Meat Juice, and is supported by it.

These two cases make us willing to try it still further, and when we have had more extensive experience with it, I will give you the results.

Very Truly Yours,
GEORGE F. JELLY.

Office South Carolina Lunatic Asylum,
Columbia, Feb'y 24th, 1873.

Mr. M. S. Valentine,

Dear Sir:—In reply to your letter of the 21st, I would state, that I received the packages of Meat Juice. I gave it a fair test, and do not hesitate to say, that in my judgment it is decidedly the best preparation of meat in a liquid form that has ever been presented to the profession.

With Great Respect, Yours Truly,
J. F. ENSOR,
Sup't, &c.

Mississippi State Lunatic Asylum,
Jackson, Miss., Feb'y 27th, 1873.

Mr. Mann S. Valentine,

Dear Sir:—I should have made an acknowledgment to you before this date of the reception of the Meat Juice; but I have been awaiting an opportunity to give it a fair test. I used three bottles without effect, in a hopeless case of dyspepsia. The man was far gone, and I gave it to him simply because it was at hand, and not because I expected any good results.

I am using the other bottles now in the case of a lady, and she is improving rapidly under its use.

With dyspeptics, and in cases of insanity in which food has to be forced upon the patient, I think your Meat Juice will supply a desideratum.

Very Respectfully, &c.,
WM. M. COMPTON,
Superintendent.

Kings County Lunatic Asylum,
Flatbush, Long Island, Feb'y 28th, 1873.

Mr. Mann S. Valentine,

Dear Sir:—The high character of the recommendations in your printed circular having satisfied us as to the nutritious properties of your preparation of "Meat Juice," we reserved the sample sent to us mainly for use in cases of "irritable stomach," arising from long abstinence from food.

Since the preparation was received sufficient opportunities have not occurred to thoroughly test its merits, but in

the instances in which it was tried it seemed to be more acceptable to the stomach than any form of liquid diet in ordinary use with us.

Yours Very Truly,

EDW'D R. CHAPIN, M. D.,
Resident Physician.

Insane Asylum of North Carolina,
Raleigh, N. C., Mar. 8th, 1873.

The use of "Valentine's Meat Juice" with our patients, so far as opportunities for experiment have been presented, has produced satisfactory results. In the case of a female patient very much reduced by hemorrhage and deranged menstrual functions, it appears to have a fine effect.

EUGENE GRESSOM, M. D.,
Superintendent.

Retreat for the Insane,
Hartford, Conn., March 12th, 1873.

Mr. Mann S. Valentine,

Dear Sir:—I have used your "Meat Juice" during the last two months, and have, thus far, considered it a valuable preparation, especially adapted to a numerous class of patients whose anorexia required the giving of concentrated nourishment in a palatable form.

Yours Truly,

JAMES H. DENNY, M. D.,
Superintendent.

Insane Asylum of Louisiana,
Jackson, La., Mar. 5th, 1873.

Mann S. Valentine, Esq.

Dear Sir:—The package of "Meat Juice" was duly received at this Hospital, and in compliance with your request as to what effects have been experienced from its use, I have to inform you that I consider the Meat Juice the best dietetic preparation I have ever used, and one admirably suited to cases often found among the insane.

Truly Yours, &c.,
L. A. BURGESS, M. D.
Medical Sup't.

Northern Ohio Lunatic Asylum,
Newburg, Ohio, March 21, 1873.

Mann S. Valentine, Esq.,

Dear Sir:—Some time ago you sent me a package of your Preparation of Meat Juice for trial. After a test of the preparation, I take pleasure in saying that I consider it an article of great value. The convenient manner in which it is put up, combined with its nutritious properties, make it a very desirable preparation of Meat Juice.

Yours Respectfully,
J. M. LEWIS,
Sup't.

Bloomingdale Asylum,
Manhattanville, N. Y., May 23, 1873.

M. Valentine,

Dear Sir:—In reply to your inquiry about our use of your "Meat Juice," I am able to say that we have been

very much pleased with it, and that I regard it as a very valuable preparation, if its quality is permanently maintained of uniform excellence with the sample sent us. It seems much more agreeable to a large majority of patients than any of the other preparations or extracts of beef as sold in the stores.

Very Respectfully,

D. T. BROWN, M. D.,
Physician of B. Asylum.

Western Lunatic Asylum, of Virginia,
March 27th, 1873.

So confident am I that your Meat Juice must prove a desideratum in the general practice, I hesitate not to authorize you to insert my name in your list of "References."

Very Respectfully,

Your Obedient Servant,
FRAS. T. STRIBBLING,
Physician and Supt.

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248 Madison Ave., Baltimore, Md.
April 1st, 1874.

Mr. Mann S. Valentine.
Richmond, Virginia.

Dear Sir:—The efficacy of your *Meat Juice* has been thoroughly tested, under my immediate and careful observation. For weak digestions, for low forms of fever, for irritable stomachs, and especially for *those whose alimentation has to be forced*,—in fact, for all conditions

where we require nourishment, *multum in parvo.* I know of nothing to equal your most valuable preparation of Meat Juice.

Respectfully,

I. D. THOMSON, M. D.,

Attending Physician,

Mount Hope Retreat for Insane.

REFERENCES.

We are permitted the use of the name of Dr. Jo. C. Hutcheson, Attending Surgeon to the Brooklyn City Hospital, New York; also Dr. J. S. Dorsey Cullen, Prof. of Diseases of Women and Children, Medical College of Virginia, and Surgeon to the Richmond City Alms-House. We would likewise refer to W. C. Lawrence, Supt. Home for Inebriates, Boston, Mass.

Valentine's Extract of Beef.

We can, from a fair experience of this preparation, recommend it to the profession, as possessing all of the qualities requisite in a concentrated form of nourishment, without the unpleasant taste which belongs to those we have hitherto been using. We are constantly prevented by the nauseous taste of many such articles, from using them, and have to lose much valuable time in waiting for a domestic article to be made.

Mr. Valentine has conferred a great boon upon us, by making his essence pure and strong, and yet so palatable that the most delicate stomach will not be offended by it. —*Editorial Virginia Clinical Record, July, 1871.*

Extract from Transactions of Richmond Academy of Medicine.

"The discussion at the Richmond Academy of Medicine, on 'The Concentrated Meat extracts,' which was opened by the very able paper on that subject read by Dr. Joynes,

was closed by some remarks of Dr. McCaw, giving a sketch of the method adopted by Mr. Valentine, of this city, in the preparation of his 'Meat Juice,' which has been so favorably received, and used to great advantage by the profession.

"All the objections to meat extracts, so effectively urged by Dr. Joynes, in his article, Dr. McCaw thought were fairly met and overcome by the "Meat Juice." The method of preparation, by which the expressed juice of fresh beef is slowly evaporated at a temperature UNDER 130°, until reduced to one-tenth of its original bulk, was described. By the use of Vacuum pans, this process is very much abreviated. When finished, the article is neatly packed in bottles, each containing the concentrated juice of four pounds of the best beef, holding in an UNCOAGULATED state ALL THE FLUID CONTENTS OF THE MEAT including the ALBUMEN, and having a delicious flavor and odour. This extract, diluted with water, either cold or warmed to a temperature of 130°, offers to the invalid a most delicate and easily assimilated food, particularly adapted to sick children, suffering from the wasting diseases of that age, and to women with intolerant stomachs, and otherwise disordered digestive organs."—*Virginia Clinical Record.*

Report of the Committee on the Exhibition of Specimens, at the Twenty-first Annual Meeting of the American Pharmaceutical Association, held at Richmond, Va., September, 1873.

IRA W. BLUNT, Ag't, Richmond, Va., exhibited, and personally explained, the merits of Mann S. Valentine's Preparation of Meat Juice. We were informed that the article is made by comminuting good fresh beef on a sausage machine, submitting it to a moderate heat for a short time, and then subjecting it to an hydraulic pressure of one hundred and fifty to two hundred tons, thus expressing the whole soluble constituents of the meat. The liquid juice is then evaporated in a vacuum pan, heated by a water bath. Heat is applied to this by means of steam, so that the temperature is kept at about 125°, and never allowed to exceed 130°. The concentration is continued in this manner until a consistency of 26° to 27° Baume has been attained. The process is carried on without regard to the season or weather. No antiseptic of any kind is added, so that the juice appears to be pickled in its own natural salts, as no difficulty is experienced in the preservation of the article. As the preparation is not subjected to sufficient heat to coagulate the albumen, this is retained in its natural state, in which it is claimed to be more readily assimilable.

Numerous testimonials from eminent physicians, among whom we find such illustrious names as Dr. J. Marion Sims, Prof. D. Hays Agnew, Dr. Gaillard Thomas, Dr. D. W. Yandell, and many others, indorse the article as being singularly well adapted to cases of great gastric irrita-

bility, and also to those in which food in a concentrated form has to be forcibly administered. Your committee were also so favorably impressed after partaking of the "Meat Juice" diluted with ten times its bulk of water, and listening to Mr. Blunt's lucid explanations, that several of them resolved henceforth to recommend this preparation to their customers in preference to the solid extracts. Prof. Agnew, in a personal conversation lately, expressed his approval of this "Meat Juice" in even higher and more positive terms than in his printed card. Since then the writer has had three opportunities for trying this preparation, all of them fully confirming his previously conceived high expectations. We would suggest a pharmaceutical application for the article, to which it seems to be well adapted, namely, for the preparation of nutritive elixirs, wines of beef and iron, &c., which are at present so fashionable.

SPECIAL.

The Meat Juice is prepared under my personal supervision; only the best material is used for its production, and its purity and identity of character will be maintained.

MANN S. VALENTINE.

AGENT'S CIRCULAR.

Since my arrangement with Mr. Valentine, in September, 1871, for the production of his Preparation of "Meat Juice," I have changed my location for more extended

operations, and with enlarged facilities, and new appliances for production, I shall endeavor to anticipate the demand for the "Meat Juice." At the same time, I would suggest to parties who desire to have a supply of the Preparation at all times, the necessity of ordering ahead. In the majority of cases, those ordering have done so *to be forwarded in haste*, and I have been thereby prevented from procuring such low rates of transportation as would be afforded by a little previous notice.

The "Meat Juice" may be obtained from the Druggists, wholesale and retail, throughout the United States.

IRA. W. BLUNT, *Agent*,

21 Thirteenth St., Richmond, Va., U. S. A.

REPORTS

Of the Medical Officers of the United States Army

In the month of September, 1873, Dr. E. R. Squibb, the eminent American chemist, on a visit to Richmond to attend the "Annual Meeting of the American Pharmaceutical Association," made me acquainted with the fact that the "Meat Juice" had been tested and its value ascertained by the Medical Officers of the United States Army. At that time, Dr. Squibb directed an order to be filled for the army. This order has been followed by others from the army, and I have been gratified by the increasing demand for the "Meat Juice" in so important a direction.

On the 2d of July, 1874—sufficient time having elapsed, as I supposed, for results to have been obtained from the application of the "Meat Juice" in the army—I wrote to Gen'l A. S. Barnes, Surgeon-General of the United States, at Washington, asking that I might be permitted to have any reports in his possession regarding the employment of the "Meat Juice" in the army. The Surgeon-General kindly consulting my wishes, courteously sent me the following response to my request, together with the valuable reports annexed:

War Department,
Surgeon-General's Office,
Washington, D. C., July 7th, 1874.

Sir:—The enclosed copy of reports received at this office from Medical Officers of the Army, who have tested

"Valentine's Preparation of Meat Juice," is respectfully furnished, in compliance with your request of the 2d instant.

By order of the Surgeon-General.

Very Respectfully,

Your Obedient Servant,

C. H. CRANE,

Assistant Surgeon-General.

Mann S. Valentine, Esq., Richmond, Va.

Fort Independence, Boston, Mass.,

October 21st, 1873.

Captain:—In compliance with the request of the Surgeon-General of the Army, contained in your letter of September 22d, 1873, transmitting to me for trial six bottles of "Valentine's Preparation of Meat Juice," I have the honor to report that, so far as I have been enabled to judge of its merits, from the employment of so limited a quantity, I am pleased with the preparation, and am satisfied that it would prove a valuable therapeutical resource in many cases of illness were it added to the Hospital Supply-Table of the Army. I do not, however, believe that it can be relied upon as an adequate nutritive in the minimum doses indicated in the accompanying printed direc-

tions. An entire bottle administered by me, at one dose, was well borne by the stomach, did not occasion diarrhœa, and seemed to be perfectly well digested and assimilated.

Very Respectfully,
Your Obedient Servant,
WARREN WEBSTER,
Surgeon U. S. A.

Capt. F. O'Donnoghue,
Medical Storekeeper, U. S. A.,
New York City, N. Y.

Post-Surgeon's Office,
Fort McHenry, Md., Nov. 22d, 1873.

Surgeon-General U. S. Army, Washington, D.C..

Sir:—Having exhausted the supply of "Valentine's Meat Juice," recently issued, I can report favorably upon its use on the basis of the few cases in which it was employed.

I am not prepared to determine its precise nutritive value; but it is palatable to patients, who refuse the other forms of beef extract.

In cases of delirium tremens, and in a case of subacute gastro enteritis, accompanied with obstinate vomiting and diarrhœa, the result of its use has been most satisfactory.

Very Respectfully,
Your Obedient Servant,
D. BACHE,
Surgeon U. S. A.

U. S. A. Post Hospital,
Fort Porter, N, Y., Dec. 22d, 1873.

To the Surgeon-General U. S. Army,
Washington, D. C.,

Sir:—I have the honor to acknowledge receipt from the Medical Purveyor at New York of a specimen (six bottles) of "Valentine's Preparation of Meat Juice," and the request that a report be made as to its merits.

I have just treated a case of croupous pneumonia, for which the quantity sent me seemed to serve a most excellent purpose.

The patient being somewhat adynamic, received from the first, quinine, brandy, and this Meat Juice. The Juice proved so nourishing and so pleasant to the taste, that I would strongly favor its substitution, on the Standard Supply-Table for Liebig's Meat Extract.

Very Respectfully,
Your Obedient Servant,
R. H. WHITE,
Assistant Surgeon U. S. A.

Post Hospital, Fortress Monroe, Va.,
December 27th, 1873.

The Surgeon-General, U. S. Army,
Washington, D. C.,

General:—I have respectfully to state that the six bottles of "Valentine's Meat Juice," sent to me by your order, from the Depot of the Chief Medical Purveyor, U. S. Army, New York city, has been consumed by the very

sick (four cases) in hospital, and that I am well satisfied that it is an excellent preparation, and preferred infinitely over any other.

Previously I had used the same article, sent direct to me from Richmond, amongst children as well as adults, in severe cases of diarrhœa and dysentery, and was already prepared to make a favorable report when this came to hand.

I will also remark, in connection with this subject, that I have been obliged to use a great deal of beef extract prepared in accordance with the formula embraced in your circular order, No. 6, of July 26th, 1873, and found it much better, and preferred greatly over the other preparations available in the Hospital, but not liked so well as the "Meat Juice."

I have the honor to be,

Very Respectfully,

Your Ob't Servant,

JOHN E. SUMMERS

Surgeon, U. S. A.

Through the Medical Director,
Mil. Division of the Atlantic.

Baton Rouge Barracks, La.,
Office Post Hospital, December 31st, 18

Surgeon-General U. S. Army, Washington, D. C.,

Sir:—I have the honor to report that I have tried "Valentine's Meat Juice" in several fever cases in which gastric irritability was a prominent symptom, and found it was readily tolerated when no other form of nourishment could be retained.

It appears to be more nutritious than other extracts, with the additional recommendation of occupying less bulk, and being more acceptable to the stomach. It was particularly useful in one case, where nutriment could not be administered except by enema.

Very Respectfully,

Your Obedient Servant,

C. EWEN,

Assistant Post Surgeon, U. S. A.

Post Hospital, Madison Barracks, N. Y.,
January 2d, 1874.

To the Surgeon-General, U. S. Army,
Washington City,

General:—I have the honor to report having received on the 30th September last, from the Medical Purveyor at New York city, a half-dozen bottles (two-ounce) of the "Meat Juice" prepared by Mr. Mann S. Valentine, of Richmond, Va., for trial and report.

From a careful observation of its effects, in a variety of cases, both in adults and children, when the system was either much exhausted or where the stomach was very irritable, and incapable of retaining nourishment or drinks of any kind, I found that it acted most promptly and favorably in every case, both by supporting the system (sometimes) in a marked degree or by quieting the irratability of the stomach and consequent nausea and vomiting. I have never seen used anything so perfectly adapted to the needs of the system, under such conditions, as this preparation, and I regard it as a dietetic of

the highest value, and I am confident it must supersede every other article of the kind hitherto in use. For the highly sensative stomach of children, in cholera infantum, I have seen nothing so useful. In one case where I tried it, it acted almost like magic in allaying vomiting, controlling the intestinal discharges, supporting and reviving the system and producing quieting rest and sleep and restoring health and strength.

I think there can be no question of its decided efficacy and senative value in such cases. In all cases it is palatable and acceptable to the stomach.

Very Respectfully,

Your Obedient Servant,

L. A. EDWARDS,

Surgeon U. S. A. (Post Surgeon).

Post Hospital, Omaha Barracks, Nebraska,

January 19th, 1874.

Surgeon-General U. S. Army,

Washington, D, C.,

General:—I have to report that the supply of "Valentine's Meat Juice," sent to this hospital for trial, has been consumed by the sick. It is apparently the best prepara- of meat yet furnished. The patients express themselves delighted with the taste, and their hunger appeased by its ingestion.

I would desire to have constantly at the Hospital a small supply of the article.

I am, General,

Very Respectfully,

Your Ob't Servant,

CHARLES PAGE,

Surgeon, U. S. A.

McPherson Barracks, Atlanta, Ga.,

February 6th, 1874.

To the Surgeon-General of the Army

(Through Med. Director, Department, South),

General:—In compliance with the request contained in the letter of Capt. F. O'Donaghue, M. S. K., of 6th November, 1873, forwarding six bottles of "Valentine's Meat Juice," I have the honor to report that the supply has been expended with the sick of the garrison, and that it has proven much more acceptable to the taste, and, as well as I can judge, fully as nutritious as any similar article that I have employed.

It appears particularly suited to those cases where the stomach rejects the ordinary beef extracts, and I should recommend its supply in small quantities as complementary to the preparation of beef now issued.

Very Respectfully,

Your Obedient Servant,

ALF. A. WOODHULL,

Asst. Surgeon U. S. Army (Post Surgeon).

Post Hospital, Fort Craig, N. M.,
April 17th, 1874.

Surgeon-General, U. S. Army, Washington, D. C.,

Sir:—I have the honor to make the following report upon the merits of "Valentine's Meat Juice"—received during January ultimo—as requested by Captain Geo. T. Beall, Med. Storekeeper, U. S. A., in his letter of November 17th, 1873, transmitting invoice of medical supplies.

Six (6) bottles in all were received, each containing two ounces of the "Meat Juice," representing, in a concentrated form, *four* pounds of beef, exclusive of fat.

Four (4) bottles were used in a case of severe gun-shot wound (soldier), in which the hemorrhage had been very copious, the patient very much enfeebled by the loss of blood and depressed by the shock. In this case it appeared to restore his strength and vital powers rapidly; was taken readily, the patient saying it was very palatable.

In the second case the remaining *two* (2) bottles were used. This was one of acute inflamation of the greater portion of the right lung, in a soldier, who is an inveterate and hard drinker, and consequently his nervous system much depressed by his habits. The patient took it most readily, and I am inclined to think it carried him safely over the crisis of his disease.

When the "Meat Juice" was all gone, I was obliged to resort, in both cases, to "Leibig's Extract of Beef" ("Extractum Carnis Leibig",) though it was taken with a great deal of reluctance after using the former. From the above limited experience, I am of the opinion that it

is preferable to the "Leibig's Extract of Beef," as it contains *all* the nutritive elements of beef in the smallest and most assimilable form, being more acceptable to an irritable stomach (less likely to produce nausea), and certainly *much more palatable.*

I am, Sir, Very Respectfully,
Your Obedient Servant,
J. FRAZER BOUGHTER,
Act. Asst. Surgeon, U. S. Army (Post Surgeon).

Through Chief Medical Officer,
District of New Mexico.

Post Hospital, Fort Preble, Maine,
May 16th, 1874.

The Surgeon-General, U. S. Army,
Washington, D. C.,

Sir:—In compliance with a request from the office of the Assistant Medical Purveyor, U. S. A. at New York city, I would respectfully report the following, relative to some Meat Juice issued to this post:

The article in question—"Valentine's Preparation of Meat Juice"—has been tried and found to be of superior quality and flavor, and far more acceptable to the palate than other preparations of this nature heretofore furnished by the Department.

The sick seem to relish this article of diet, which quality the extract of Leibig lacks. Valentine's prepa-

ration is a semi-fluid, and for that reason may not keep as well as Leibig's, in southern climates; but for this latitude, the substitution of Valentine's preparation for Leibig's extract will be undoubtedly a great gain.

Very Respectfully,

Your Obedient Servant,

F. L. TOWN,

Surgeon, U. S. Army

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